NETWORK ENGINEERING AND OPERATIONS SUPERVISOR

PURPOSE AND NATURE OF WORK

The single position so classified is responsible for all network engineering and related operation activities of Lafayette Utilities System. Responsibilities include planning, design, project bidding, and construction management of all new network installations and upgrades of existing networks. Position will oversee the operation and maintenance of all Smart Grid systems and any required integration between those systems as well as direct and facilitate the computer and network related work with the system. Incumbent works under the general direction of the Engineering and Power Supply Manager and has supervisory responsibility for a technical and professional staff.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Supervises and participates in the analysis of the existing network system and projection of future needs. Leads and participates in design, preparation of specifications and bid packages, evaluation of bids, and inspections of work sites. Approves change orders and contract payments for work related to the network systems. Determines fiber budget and loss calculations. Performs AC and DC circuit design. Performs bandwidth calculations to sizing backhaul circuits between complexes.

Uses comprehensive knowledge of both utility engineering methods and materials and the latest computer hardware / software applications to supervise and participate in installing, maintaining and providing computerized engineering services such as drafting, record storage, retention and retrieval, the Geographic Information System / Lafayette Utilities Mapping Information System which provides graphical information and maps portraying all the system's facilities, installations, descriptions and identifying characteristics. Oversees staff responsible for operations, maintenance, problem solving and updating work on the utility customer information system (CIS), including Customer Care and Billing (CCB). Coordinates the installation and upgrading of software and hardware for all network and computer related systems at Lafayette Utility System. Directs the writing of applications and systems integrations for Lafayette Utilities System's computer and network systems. Prepares the annual budget for Lafayette Utilities System's information technology needs.

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Thorough knowledge of the principles and practices of network engineering.

Thorough knowledge of methods, materials, and requirements for electrical circuit and telecommunications infrastructure design.

Thorough knowledge of network hardware design requirements.

Thorough knowledge of utilities computer, network, and control system.

Ability to write software to communicate and interface with hardware devices used by utility plant control systems.

Ability to specific and implement a cyber security plan in accordance with NERC standards.

Ability to plan, organize and manage the work activities of employees in different locations.

Ability to specify, install, and provision network equipment.

Ability to perform cost estimates and forecast project timelines.

Ability to form and maintain effective working relationships with other co-workers, customers, elected officials, and the general public.

Ability to communicate clearly both verbally and in writing.

DESIRABLE EDUCATION AND EXPERIENCE

Baccalaureate degree in Electrical or Computer Engineering and substantial working experience in computer network systems and construction management or any equivalent combination of education and experience.

NECESSARY SPECIAL REQUIREMENT

Registration as a professional engineer in the State of Louisiana or a state granted reciprocal recognition of registration.